MM-A24
MM-A25

Micro Component Audio system

CD/MP3-CD/WMA-CD/CD-R/RW Playback

user manual

imagine the possibilities

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www.samsung.com/global/register

SAMSUNG

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Safety Warnings

ENG

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LASER CLASE 1

CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER, NO USER SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

Use of controls adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN AND INTER LOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

This symbol indicates that dangerous voltage constituting of a risk of electric shock is present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the owners manual accompanying this unit.

Wiring the Mains Power Supply Plug(UK Only)

IMPORTANT NOTICE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BS1362 of the same rating must be used.
Never use the plug with the fuse cover omitted. If the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.
If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.

However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:–

BLUE = NEUTRAL **BROWN = LIVE**

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:–

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING: **DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL ⏚ , OR COLOURED GREEN OR GREEN AND YELLOW.**

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life.
To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.
Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.
Business users should contact their supplier and check the terms and conditions of the purchase contract.This product should not be mixed with other commercial wastes for disposal.

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Thank you for buying this SAMSUNG micro component system.

Please take time to read these instructions. They will allow you to operate your system with ease and take full advantage of its features.

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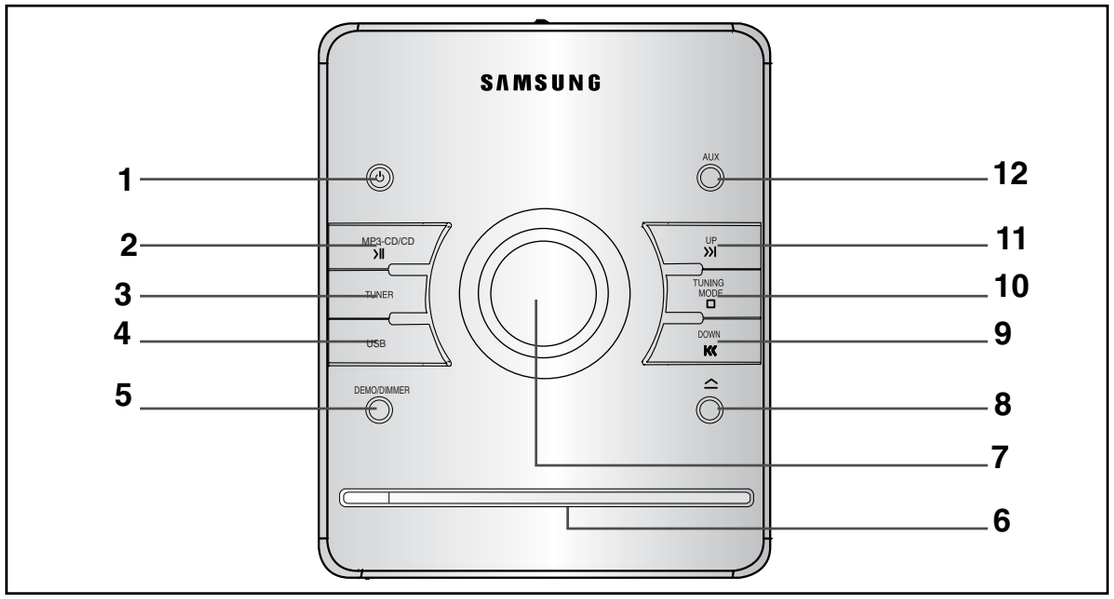
Symbols

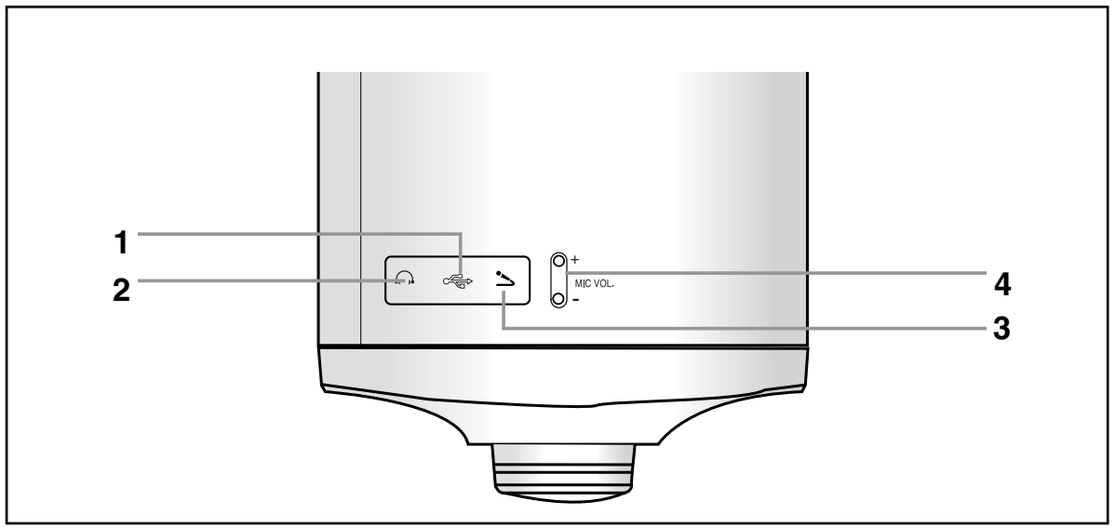
Press **Push** **Important** **Note**

Front Panel View



1. STANDBY/ON
2. MP3-CD/CD
3. TUNER
4. USB
5. DEMO/DIMMER
6. CD DOOR
7. VOLUME CONTROL
8. CD DOOR OPEN/CLOSE
9. SEARCH FUNCTION BUTTONS(DOWN)
10. TUNING MODE OR STOP BUTTON
11. SEARCH FUNCTION BUTTONS(UP)
12. AUX

Top Panel View



1. USB JACK
2. HEADPHONE JACK CONNECTOR
3. MIC JACK
4. MIC VOL

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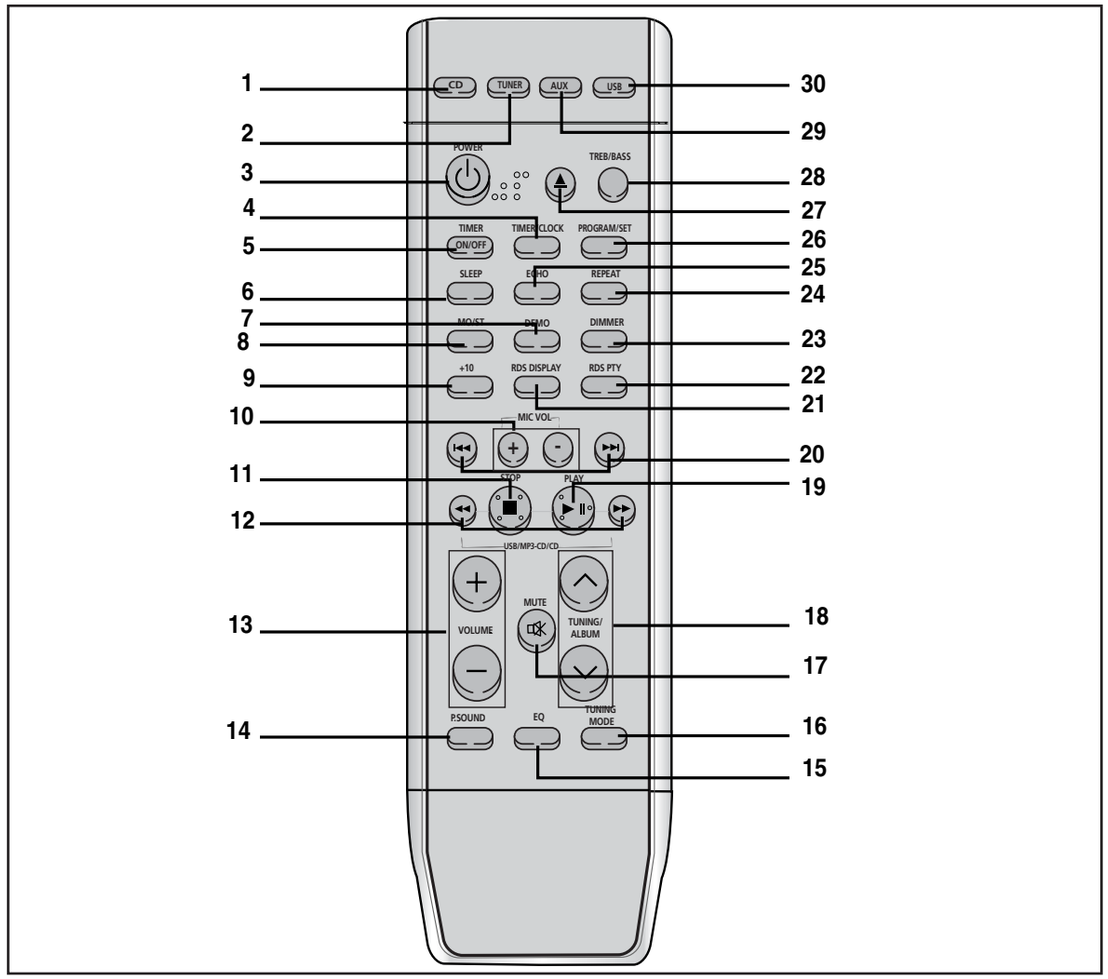
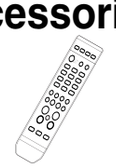
Remote Control



1. CD
2. TUNER
3. POWER
4. TIMER/CLOCK
5. TIMER ON/OFF
6. SLEEP
7. DEMO
8. FM MO/STEREO/REV.MODE
9. +10
10. MIC VOL
11. USB/MP3-CD/CD STOP
12. FAST-FORWARD/FAST BACK
13. VOLUME CONTROL
14. POWER SOUND
15. EQ
16. TUNER MODE
17. MUTE
18. TUNING UP OR DOWN / ALBUM SKIP
19. USB/MP3-CD/CD PLAY/PAUSE
20. USB/MP3-CD/CD SKIP OR SEARCH
21. RDS DISPLAY
22. RDS PTY
23. DIMMER
24. REPEAT
25. ECHO
26. PROGRAM/SET
27. OPEN/CLOSE
28. TREB/BASS
29. AUX
30. USB

Accessories



Remote Control

FM Antenna

User Manual

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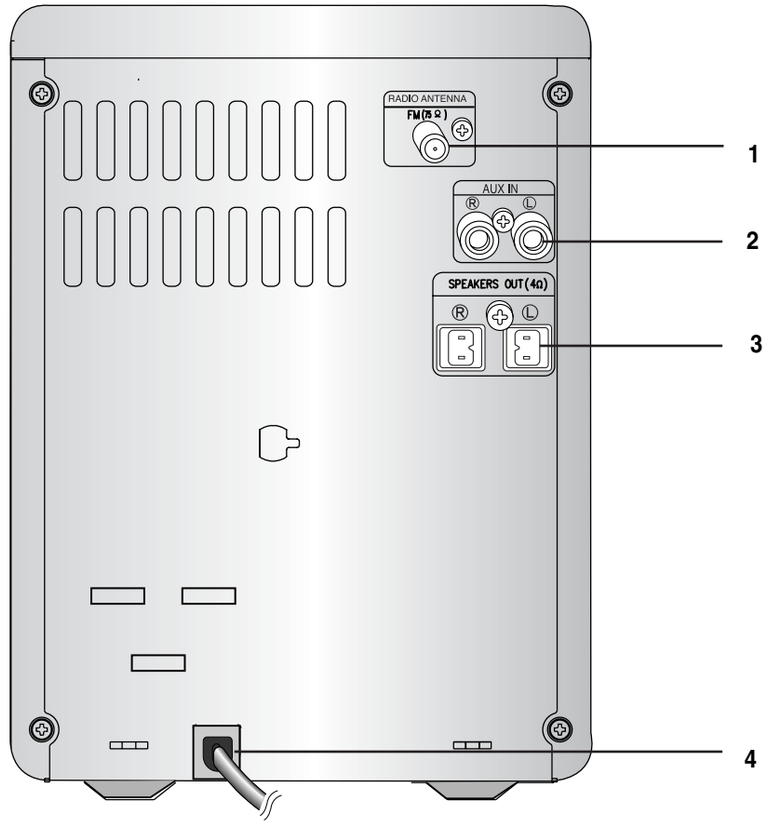
Rear Panel View

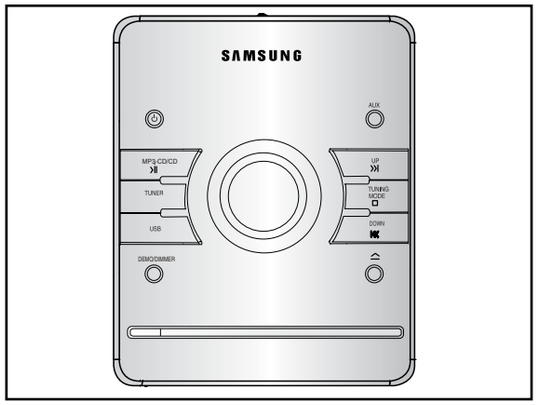


1. **FM Aerial Connector Terminal**
2. **AUX-Input**
3. **Loudspeaker Connector Terminals**
4. **Voltage**

Where to Install Your Micro Component System

To take full advantage of your new micro component system, follow these installation instructions before connecting the unit.

- Install the system on a flat, stable surface.
- Never place this unit on carpeting.
- Never place this unit in an outdoor area.
- Maintain an open space of approximately 6 inches (15 cm) on the sides and rear of the system, for ventilation purposes.
- Make sure that you have enough room to open the compact disc compartment easily.
- Place the loudspeakers at a reasonable distance on either side of the system to ensure good stereo sound.
- Direct the loudspeakers towards the listening area.
- For optimum performance, make sure that both speakers are placed at an equal distance above the floor.

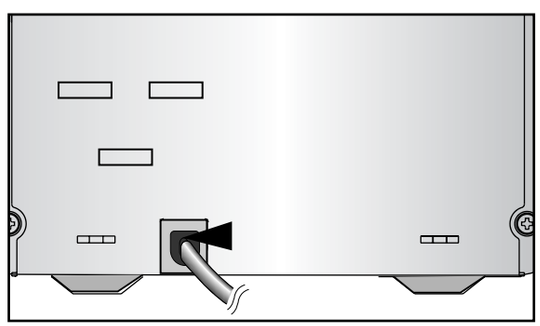


Connecting your System to the Power Supply

The main lead must be plugged into an appropriate socket.

☛ Before plugging your system into a main socket, you must check the voltage.

1. Plug the main lead into an appropriate socket.
2. Press the (⏻) button to switch your micro component system on.



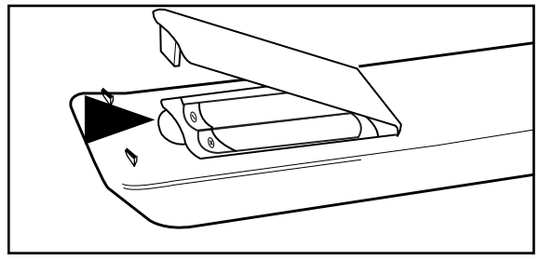
Inserting Remote Control Batteries

Insert or replace remote control batteries when you:

- Purchase the micro component system
- Find that the remote control is no longer operating correctly

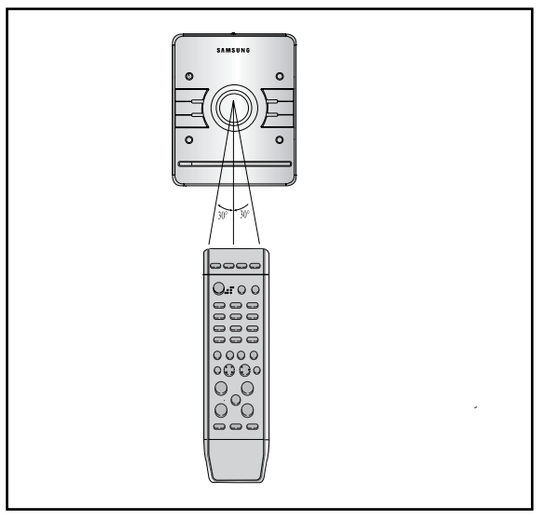
☛ When replacing the batteries, use a new set of batteries and never mix alkaline and manganese batteries.

1. Place your thumb on the position marked ▽ on the battery compartment cover (rear of the remote control) and pull the cover in the direction of the arrow.
2. Insert two AAA, LR03 or equivalent batteries, taking care to respect the polarities:
   - + on the battery against + in the battery compartment
   - – on the battery against – in the battery compartment
3. Replace the cover by sliding it back until it clicks into position.



Range of Operation of the Remote Control

The remote control can be used up to approximately 23 feet/7 meters in a straight line. It can also be operated at a horizontal angle of up to 30° from the remote control sensor.



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Connecting to an External Source

The auxiliary input can be used to take advantage of the sound quality of your micro component system when listening to other sources.

Examples: ♦ A television
♦ A DVD player
♦ A VCR

➢ To connect to the external source, the source must have an audio output.

1 Set the system to standby mode and disconnect it and the external source from the main socket.

2 Connect the audio cable to the rear of the micro component system.

Connect the...	To the connector marked...
Red jack	R (right)
White jack	L (left)

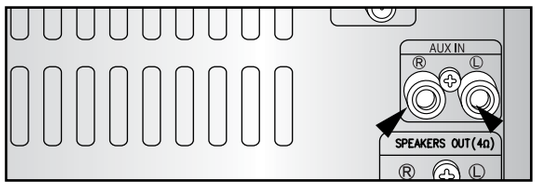
➢ For optimum sound quality, do not invert the right and left channels.

3 Plug the system back into the main socket and press (⏻) to switch it on.

4 Select the AUX source by pressing **AUX**.
Result: **AUX** is displayed.

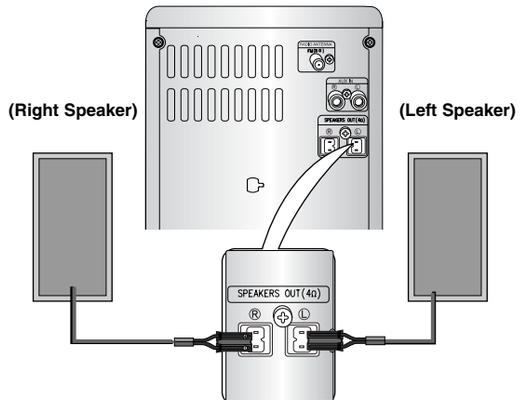
5 Switch the external source on.

Example: You can watch a film and take advantage of stereo sound provided that the original sound track is in stereo (as if you were in a cinema).



Speaker Connection

Main Speaker Connection: Connect the Speaker cords (red/black) to the Main Speaker jacks of System.



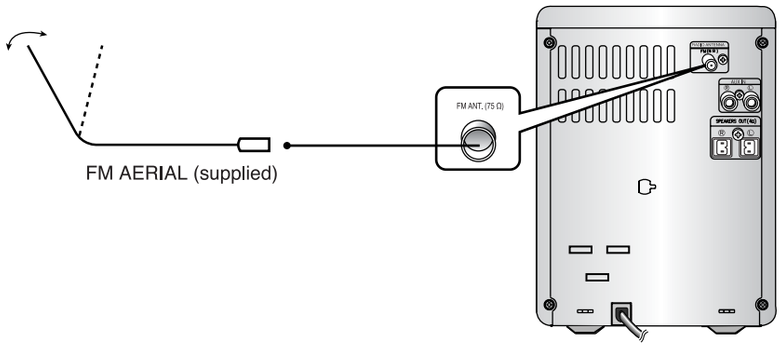
Directions in Installing Speaker

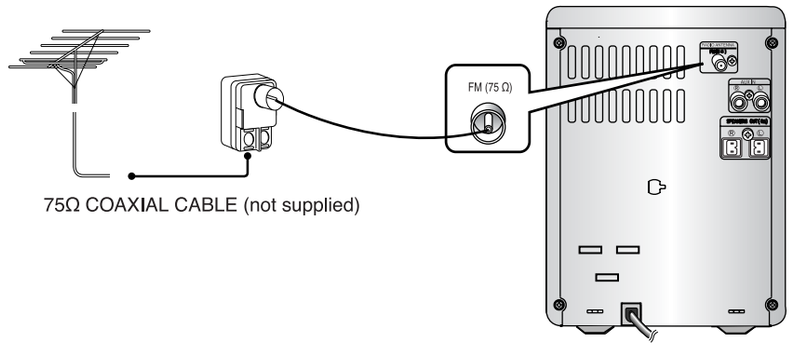
- ♦ Installation in a place near heating apparatus, under direct lay of light or with high humidity may cause performance degradation of the speaker.
- ♦ Do not install on the wall or on a high place of pole or other unstable place to prevent any safety accident caused by falling of the speaker.
- ♦ The speaker near the TV or computer monitor may influence the quality of the screen display.

Connecting the FM Aerial

How to connect a COAXIAL TYPE aerial.

- ♦ Connect a 75Ω antenna to the **FM** antenna terminal.
- ♦ Plug the connector on the **FM** aerial supplied into the coaxial socket (75Ω) marked **FM** on the rear of the system.
- ♦ Follow the instructions given on **Page 17** to tune into a radio station, and determine the best position for the aerial.
- ♦ If reception is poor, you may need to install an outdoor aerial.
  To do so, connect an outdoor **FM** aerial to the **FM** socket on the rear of the system using a 75Ω coaxial cable (not supplied).





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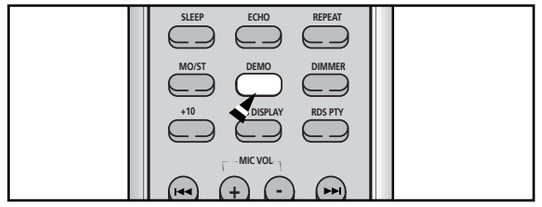
DEMO Function

You can view the various functions available on your system.

1 Press the **DEMO button**.
Result: The various functions available are listed in turn on the display.

➢ All these functions are described in detail in this booklet.
For instructions on how to use them, refer to the appropriate sections.

2 To cancel this function, press **DEMO** again.

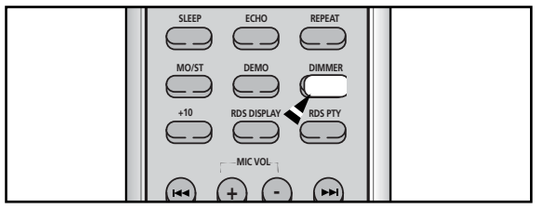


DIMMER Function

You can adjust the brightness of the VFD display depending on the surrounding lighting conditions.

1 Press the **DIMMER** button.

♦ Your selection switches each time the button is pressed:
DIMMER(Dim) → OFF(Bright).



Setting the Clock

Your system is equipped with a clock which allows you to turn your system on and off automatically.
You should set the clock:

- ♦ When you first purchase the micro component system
- ♦ After a power failure
- ♦ After unplugging the unit

☛ ♦ For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.

1 Switch the system on by pressing (⏻) .

2 Press **TIMER/CLOCK** twice.
Result: CLOCK is displayed.

3 Press **PROGRAM/SET**.
Result: The hour flashes.

4

To...	Press...
Increase the hours	∧
Decrease the hours	∨

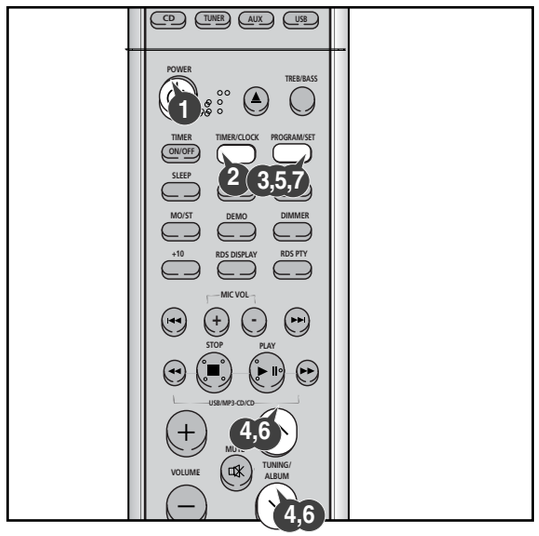
5 When the correct hour is displayed, press **PROGRAM/SET**.
Result: The minutes flash.

6

To...	Press...
Increase the minutes	∧
Decrease the minutes	∨

7 When the correct time is displayed, press **PROGRAM/SET**.
Result: ♦ "TIMER" appears in the display.
♦ The current time is now set.

➢ ♦ You can display the time, even when you are using another function, by pressing **TIMER/CLOCK** once.



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To play the CD/MP3/WMA-CD

You can play 12 cm or 8 cm compact discs without an adapter.

This unit has been designed to playback the CDs: Audio CD, CD Text, CD-R, CD-RW and MP3/WMA,-CD.

Continued use of irregular shape CDs (heart-shape, octagonal, etc.) can damage the unit.

1 Select the CD function by pressing **MP3-CD/CD**(›II) button.

2 Press the **Open/Close** (⏏) button.
Result: The compartment opens.

3 Place your disc in the compartment, with the label on the disc facing upwards.

4 Close the compartment by pressing the **Open/Close** (⏏) button again.

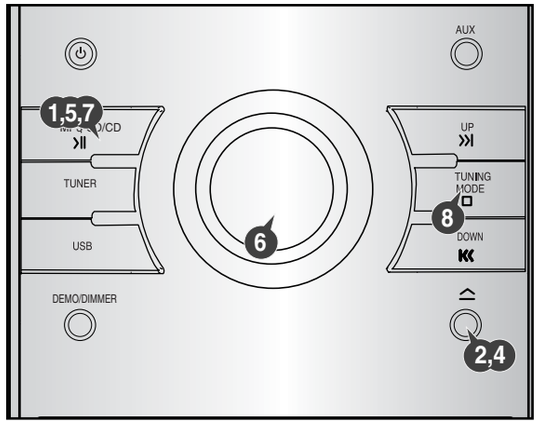
5 Press the **MP3-CD/CD**(›II) button.
♦ Your CD Player will take a few moments to scan through all the tracks recorded on a particular MP3/WMA-CD
♦ The English name of the song may be indicated on the display only if directly downloaded from the PC or if the purchased MP3/WMA-CD is sorted according to titles(directory).
(Other languages besides English may not be indicated.)
♦ The English name of the track may not be indicated depending on the characteristics of the MP3/WMA-CD.

6 Adjust the volume according to needs with the following procedures.
♦ Turn the **VOLUME** control of the main unit.
or
♦ Press the **VOLUME +** or **—** button of the remote control.
The volume level can be adjust in(VOL MIN,VOL 1- VOL 29,and VOL MAX).

7 To pause playback temporarily, press the **MP3-CD/CD** (›II) button.
➢ Press **MP3-CD/CD** (›II) again to continue playing the disc.

8 Press the **STOP** (□) button when you have finished.

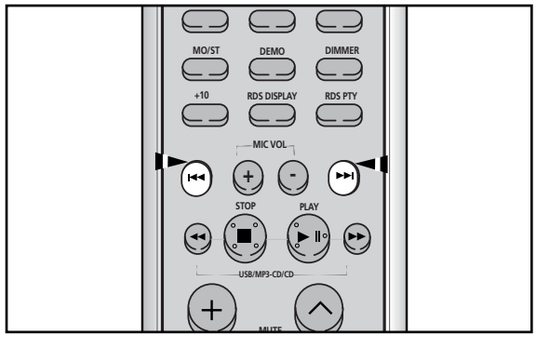
➢ Press and hold **OPEN/CLOSE**(⏏) button for 5 seconds, "LOCK door"will be displayed and the compartment doesn't open. In this way you must press and hold **OPEN/CLOSE** (⏏) button for a long time until "LOCK OFF" will be displayed, the compartment can open.



Selecting a Track

You can select the track you wish to listen to, either when the compact disc player is stopped or when a disc is playing.

To start playback at the beginning of the...	Press...
Next track	▶▶I once
Current track	I◀◀ once
Previous track	I◀◀ twice
Track of your choice	I◀◀ or ▶▶I the appropriate number of times.



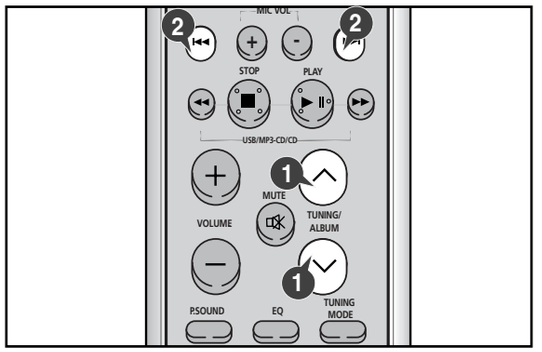
To select the MP3/WMA-CD album and track

The album and track of the MP3/WMA-CD desired to listen may be selected on stopping or during playbacks.

1 To move the album, press the **TUNING/ALBUM** ∧ / ∨ button.

2 To move the track, press the I◀◀, ▶▶I button.
♦ Moves the track within the album.
♦ If the I◀◀, ▶▶I button is pressed more than the number of tracks within the album, it moves to the next album.

➢ This function works only with remote control.



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What is WMA?

WMA means Windows Media Audio, the global standard for audio signal compression technology.

What is MP3?

MP3 means MPEG1 Layer 3, the global standard for audio signal compression technology. It uses digital compression technology to compress original sound data by up to 12 times without sound quality degradation.

File Compatibility

- The unit will playback files created in MP3 format (Mpeg1.Layer3) with *.mp3 as their extension,and some WMA files with.WMA extension can't be playback.
- Playback will be impossible for the file of MP2 or 22KHz.
- ID3*tags can be shown on the display in English.

*An MP3 file can contain file information called "ID3 Tag " where its album name, performer, rack title, etc. are recorded.

How many MP3 files can a CD-R or CD-RW disc record?

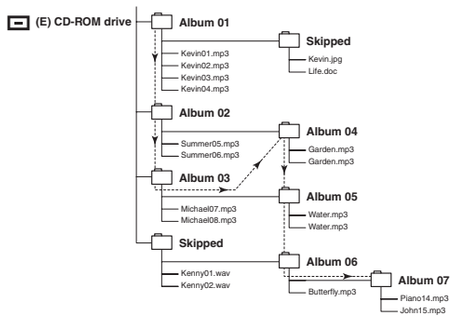
The maximum capacity of one CD-R or CD-RW disc is 740MB.
Normally, one MP3 file has a capacity of 4MB, therefore approximately 180 files can be recorded on a single disc.

Regarding the playback of CD-R/RW

- In the case of an original CD-R(Recordable) recorded in audio CD format, CD-RW(Rewritable) and editing by the user, playback is processed on the respective completed status. (The player may not be played back according to the characteristics of the CD or recorded status.)
- The CD-RW is comparably less reflexive than CD which causes more time delay to read.

Playback sequence of albums and tracks

- In case of Window Explorer display.
- The arrows indicates playback sequence of albums and tracks.
- Tracks with jpg, wav or doc only are not audio files and therefore will be skipped.



Searching for a Specific Music Passage on a CD

When listening to a compact disc, you can quickly search for a specific music passage on a track.

To search through the tracks...	Press and hold down...
Forwards	◀◀ for at least one second
Backwards	▶▶ for at least one second

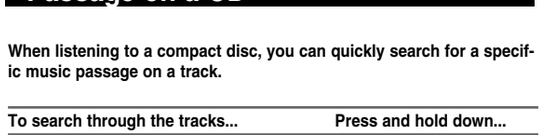
It is recommended that you turn the volume down before using this function.

Function to skip through 10 tracks at a time

Press the +10 button briefly while playing back a CD. The track 10 tracks after the current one will then be played back.

Example: If you want to select track 43 during playback of track 15, press the **+10** button three times, and then press the ▶▶| button three times.

15 → **20** → **30** → **40** → **41** → **42** → **43**
(+10) (+10) (+10) (▶▶|) (▶▶|) (▶▶|)



Repeating One or All Tracks on the Compact Discs

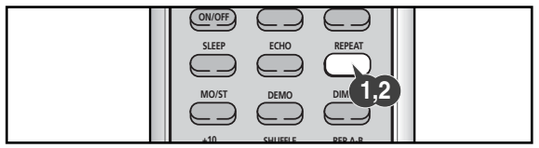
You can repeat indefinitely:

- A specific track on a compact disc.
- All tracks on the compact disc selected.

1

To repeat...	Press Repeat on the remote control one or more times until...
The current track indefinitely	REPEAT 1 is displayed
All tracks	REPEAT ALL is displayed

2 To cancel this function, press **REPEAT** again.



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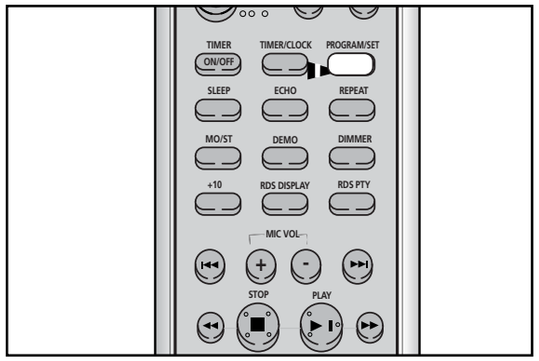
Last Memory Function

(This function is only available during playback of an MP3/WMA-CD.)

When CD playback is selected again after your CD player has been stopped or turned off, this function allows playback from the start of the track that you last listened to.

- Press the **PROGRAM/SET** button while your MP3/WMA-CD is being played back.
  The **LAST ON** and **LAST OFF** may be repeatedly selected.



Programming the Order of Playback

(This function is not available during playback of an MP3/WMA-CD.)

ENG

You can decide:

- The order of the track desired to listen
- The track not desired to listen
  - A maximum of up to 24 order of tracks desired to listen may be programmed.
  - Before selecting the track, the CD player should be stopped.
  - This function may be used simultaneously with the CD Repeat function.
  - In the case of the MP3/WMA-CD, the PROGRAM/SET button may be used as the **LAST ON**, **LAST OFF** function.

1 If the CD function is selected, stop the player by pressing ■ button.

2 Load the selected CD.

3 Press **PROGRAM/SET**.
Result: The following indications are displayed:

P01: -- --

(01 = Program no., -- -- = Track no. on the disc)

4 Select the required track by pressing:
- |◀◀ to move back through the tracks
- ▶▶| to move forward through the tracks

5 Press **PROGRAM/SET** to confirm your selection.
Result: The selection is stored and P02: -- -- is displayed.

6 To select other tracks, repeat Steps **4** to **5**.

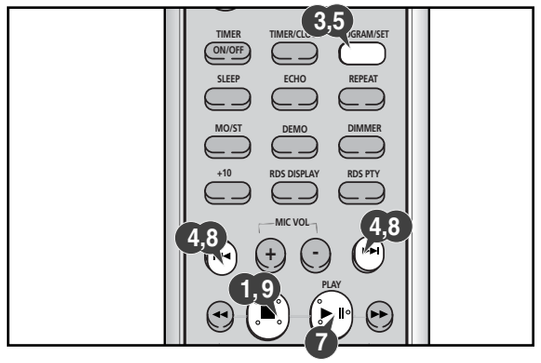
7 Press **MP3-CD/CD** (▶II) to listen to the track selection in the order programmed.

8

To...	Press...
Listen to the current track again	|◀◀ once
Listen to the previous track	|◀◀ twice
Listen to the next track	▶▶| once
Skip forwards or backwards one or more tracks	|◀◀ or ▶▶| the appropriate number of times

9 When press ■ button one time compact disc player is stopped,and press ■ button again to cancel the selection.
- Once if the compact disc player is stopped

- If you open the compartment, the selection is cancelled.



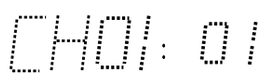
ENG

Checking or Changing Programmed Tracks

You can check or change your selection of tracks at any time.

1 Press ■ once if you have started listening to the selection.

2 Press **PROGRAM/SET** button twice.
Result: The following indications are displayed:



(01 = Program no., – – = Track no. on the disc)

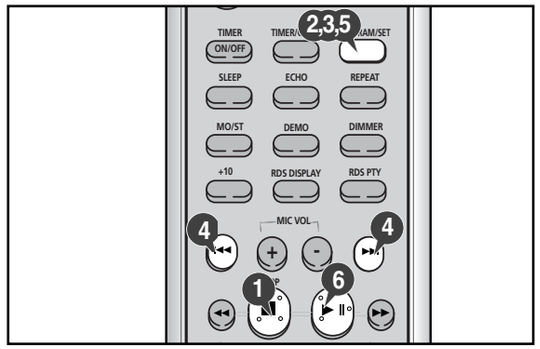
➢ If you have already programmed 24 tracks, CH is displayed instead of PR when you press **PROGRAM/SET**.

3 Press **PROGRAM/SET** one or more times until the track to be changed is displayed.

4 Press ⏮ or ⏭ to select a different track.

5 Press **PROGRAM/SET** to confirm your change.

6 Press **MP3-CD/CD** (▶II) to start listening to the selection.
Result: The first track selected is played.



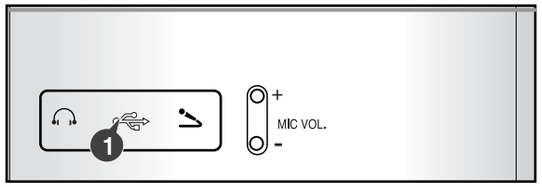
Playing USB

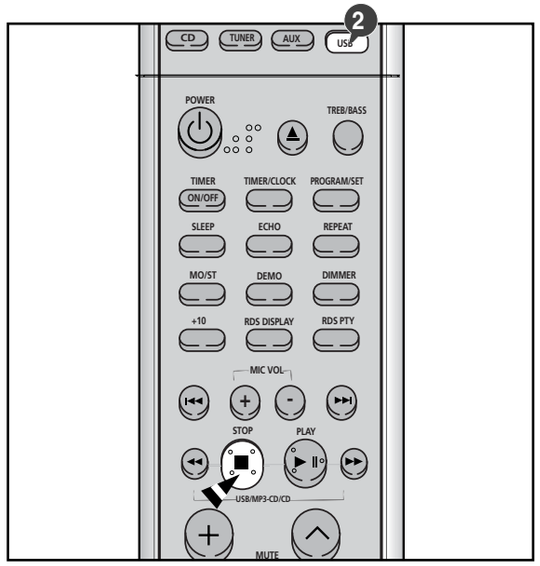
You can play MP3/WMA files by connecting to various external USB storage devices such as USB flash memory or HDD. time.

1 Connect the external USB storage device to your player.

2 Select USB function by using the **USB** button.
♦ The first track of the first directory plays automatically.

➢ **To stop playing**
Press the Stop (■) button to stop playing.
♦ Press the Stop (■) button once to pause, and press the button twice to stop completely.





☛ ♦ Do not connect USB charging device to the USB connection port of the player, because it may cause damage to the product.

Please be aware of the followings before using USB.

- ♦ Depending on the type of external USB storage device, it may not work even if it's connected to the player.
- ♦ With external HDD, FAT format can be played, but not NTFS format.
- ♦ With USB 2.0 HDD, connect to a separate power source. If it's not connected to a separate power source, it may not work.
- ♦ If memory of an external USB storage device is segmented into several parts, MP3 files of only the first hard disk drive can be played.
- ♦ Regarding directories, up to fourth directory can be played.
- ♦ DRM applied files are not played.
  Digital Rights Management: Technology and service that protect the profit and rights of copyright owners by disallowing unauthorized use of digital contents.
- ♦ Even if the file name ends with .mp3, the file does not play if actual file format is MPEG layer 1 or 2.
- ♦ Disconnect the external USB storage device only in safe removal mode("USB REMOVE" display ON/OFF). Otherwise, internal file can be damaged.
  Press the Stop (■) button more than 3 times to get into the safe removal mode.
  If you want to play files in the safe removal mode, disconnect and reconnect the external USB storage device.
- ♦ USB hub will not be recognized.
- ♦ Directory names are shown up to 14 letters, and MP3 file names up to 30 letters.

Delay

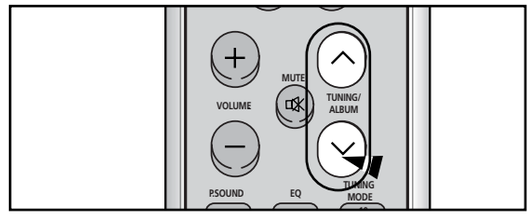
- ♦ When selecting USB function, depending of the speed of the external USB storage device, reading (READ-IN) internal information can take several minutes.
- ♦ When playing a USB device, recording or finding next track may introduce some delay. Especially with a mass storage device such as HDD, depending on the type and the number of files, the delay might be several minutes.
- ♦ Even with the external USB storage devices of same capacity, depending on the speed of each product, the amount of operating time can vary.
- ♦ If the external USB storage device supports only USB VER 1.1 and the access speed is slow, the recording may not work well or noise can be recorded.

Selecting a Track from USB Device

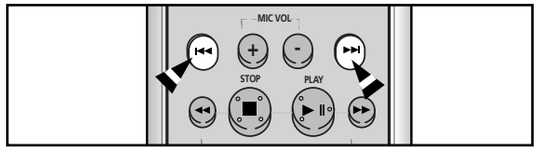
You can select a desired directory and an MP3 file during the play or when it stopped.

Before you begin! ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the USB button.

➢ Press the **TUNING/ALBUM** ∧ / ∨ buttons to move the directory.
♦ Each time you press the button, it will move to the directory before or after and play.
♦ This function works only in the remote control.



➢ If you want to move the file, press the ⏮ , ⏭ button shortly.
♦ It moves the file within the directory.
♦ If you press the ⏮ , ⏭ button more times than the number of the files in the directory, it will move over to the next directory.



To skip next 10 tracks

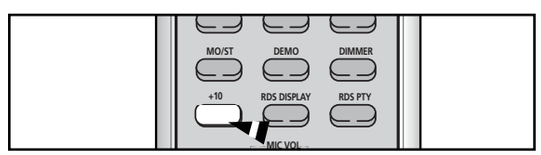
Before you begin! ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the USB button.

➢ Press the **+10** button on the remote control shortly during the play.
♦ A track that is 10 tracks after the current track plays.

Example: If you want to select 43rd track while 15th track is playing, press the +10 button 3 times and then press the ⏭ button 3 times.

15 → 20 → 30 → 40 → 41 → 42 → 43

+10 +10 +10 ⏭ ⏭ ⏭



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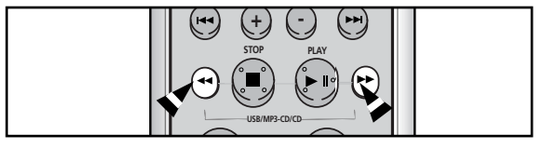
To use high speed search

Before you begin! ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the USB button.

You can search the part you want quickly during the play

➢ Press and hold the ◀◀ , ▶▶ button.
♦ Whenever you press and hold the button, you can search backward or forward quickly.



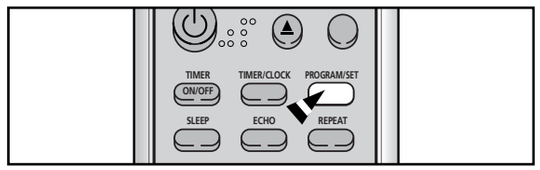
☛ ♦ When you use the high speed search function, there is no sound.

To use Last Memory function

Before you begin! ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the USB button.

Last Memory is a function that resumes playback from the last part of the previous listening when the user reselects USB function again after stopping the play or selecting another function.

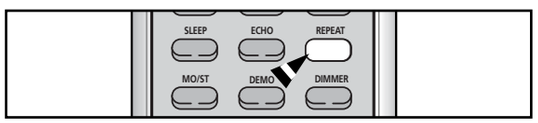
➢ Press the **PROGRAM/SET** button,
♦ LAST ON and LAST OFF are repeatedly selected.



To repeat

Before you begin! ♦ Connect the external USB storage device to your player.
♦ Select USB function by using the USB button.

➢ Press the **REPEAT** button during the play.
♦ REPEAT 1 : repeat play one track only.
♦ REPEAT ALL : repeat play the entire directories.



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Searching for and Storing the Radio Stations

You can store up to:

♦ 15 FM stations

1 Switch the system on by pressing (⏻).

2 Select the required frequency band by pressing **TUNER** again on the front panel or **TUNER** on the remote control.
Result: The appropriate indication is displayed:
♦ **FM** Frequency Modulation

3

To search for a station...	Press TUNING MODE
Manually	One or more times until **MANUAL** is displayed.
Automatically	One or more times until **AUTO** is displayed.

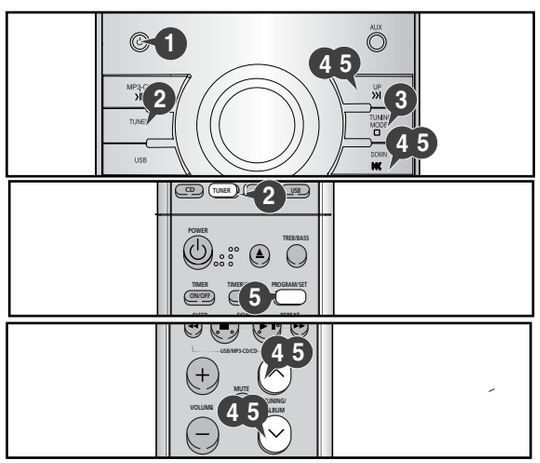
➢ PRESET function is explained in detail in the section "Selecting a Stored Station" on.

4 Select the station to be stored by:
♦ Pressing ⏮ or ⏭ buttons on the front panel or ∧ or ∨ buttons on the remote control to increase or decrease the frequency respectively.
♦ To scroll through the frequencies faster when searching manually, hold down the ◀◀ or ▶▶ buttons.
♦ The automatic search procedure may stop on a frequency that does not correspond to a radio station. If this happens, use the manual search mode.

5 If you do not want to store the radio station found, revert to Step **4** and search for another station.
Otherwise:
♦ Pressing ⏮ or ⏭ buttons on the front panel or ∧ or ∨ buttons on the remote control to assign a program number .

6 To store any other radio frequencies required, repeat Steps **3** to **5**.

➢ ♦ The PROGRAM function can be used to assign a new station to an existing program number.



Selecting a Stored Station

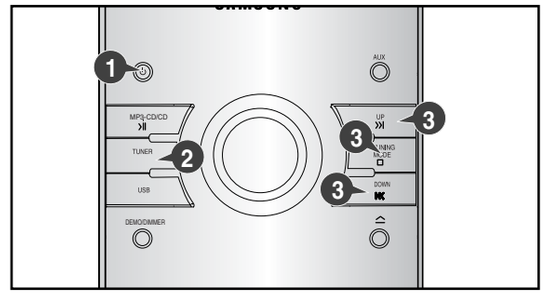
You can listen to a stored radio station as follows:

1 Switch the system on by pressing (⏻) .

2 Select the required frequency band by pressing **TUNER** on the front panel.

3 Select the radio station as follows.

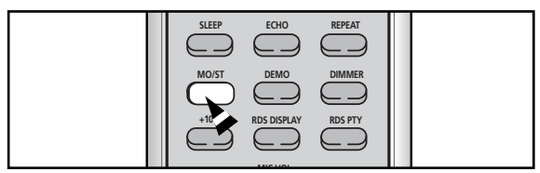
To listen to ...	Press ...
Stored station	1. the **TUNING MODE** button until "**PRESET**" is displayed. 2. ⏮ or ⏭ button to select the required program.



Improving Radio Reception

You can improve the quality of radio reception by:
♦ Rotating the FM aerial

➢ If reception from a specific FM radio station is poor, press **MONO/ST.** to switch from stereo mode to mono. The quality of the sound will be improved.



ENG

About RDS broadcasting

This unit has the RDS (Radio Data System) function, which enables for the various information such as broadcasting station, radio text, time and 30 types of programs (News, Rock, Classic, etc.) to be received from the FM RDS station together with normal radio signal.

1 Press the (⏻) button.

2 Receive the FM radio.
- ♦ See the radio receiving method on the **page 17**.
- ♦ FM and frequency are shown on the display
- ♦ If the received station transfers the RDS information, 'RDS' appears automatically on the display.

3 Press the **RDS Display** button to select the desired RDS mode.
- ♦ Whenever the button is pressed, RDS mode changes as follows.

→ PS NAME → RT → CT → Current FM frequency →

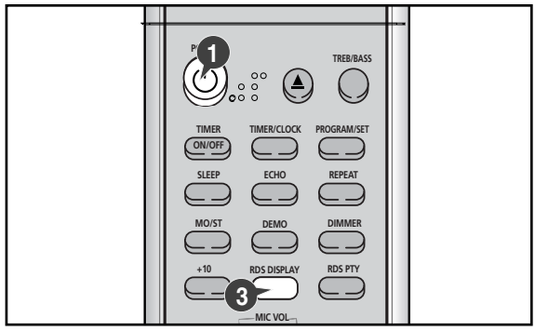
☛ ♦ The RDS function is available only in **FM** broadcasting.

♦ RDS may not operate correctly if the station tuned is not transmitting RDS signal property or if the signal strength is weak.

➢ **Description on RDS function**

1. **PTY**(Program Type) : Displays the type of programme currently being broadcast
2. **PS NAME**(Program Service Name) : Indicates the name of broadcasting station and is composed of 8 characters.
3. **RT**(Radio Text) : Decodes the text broadcast by a station (if any) and is composed of maximum 64 characters.
4. **CT**(Clock Time) : Decodes the real time clock from the FM frequency.

   ➢ Some stations may not transmit PTY, RT or CT information therefore this may not be displayed in all cases.
5. **TA**(Traffic Announcement) : When this symbol flashes it shows that the traffic announcement is in progress.



About RDS DISPLAY function

About "PS NAME" MODE

➢ Displays the name of broadcasting station.

Press the **RDS DISPLAY** button to select the PS NAME.
- ♦ "**PS NAME**" appears on the display.
- ♦ If the PS information is being received, the PS name (BBC, AFO, NDR, etc.) is shown on the display.
- ♦ If the PS information isn't received, the original FM frequency is shown.

☛ Even though no **RDS DISPLAY** button is pressed, the reception of PS information ensues the PS name is displayed.

About 'RT' MODE

➢ Displays the character transmitted from the broadcasting station.

Press the **RDS DISPLAY** button to select the RT MODE.
- ♦ "**RT**" appears on the display.
- ♦ If the RT information is being received, the received information is shown on the display.
- ♦ If the RT information isn't received, the "**NO RT**" is shown. On the display.

About CT(Clock Time)

➢ Sets the time of RDS clock.

To select the CT time, set the **RDS DISPLAY** button to CT MODE.

☛ ♦ The CT information will take up to 2 minutes to be decoded therefore the clock isn't displayed immediately.

♦ If there is no received CT information, "**NO CT**" is displayed.

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PTY(Program Type) indication and PTY-SEARCH function

- ♦ The PTY information is composed of an identification symbol, which helps the FM radio to recognize the program type of each FM station.
- ♦ The below 30 PTY information is shown on the display by pressing the Pty button.
- ♦ The PTY Search is only applicable to preset stations.
- ♦ To stop searching any time during the process,press PTY SEARCH while searching.
- ♦ There is a time limit in doing the followings steps.If the setting is cancelled before you finish,start from step 1 again.
- ♦ When pressing the buttons on the primary remote control,make sure that you have selected the FM station using the primary remote control.

Display	Program Type
NEWS	• News including an announced opinion and report
AFFAIRS	• Several matters including a current incident, documentary, discussion and analysis.
INFO	• Information including weights and measures, returns and forecast, matters interesting the customer, medical information, etc.
SPORT	• Sports
EDUCATE	• Education
DRAMA	• Drama-Radio serial, etc.
CULTURE	• Culture-National or local culture including the religious problem, social science, language, theatre,etc.
SCIENCE	• Natural science and technology
VARIED	• Others-Speech, amusing program (quiz, game), interview, comedy and satirical play, etc.
POP M	• Pop music
ROCK M	• Rock music
M.O.R.M	• M.O.R- Comfortable music, occasionally vocal or piece
LIGHT M	• Light classical music- Classical music and instrumental and chorus music
CLASSICS	• Heavy classical music-Orchestra music, symphony, chamber music and opera
OTHER M	• Other music - Jazz, R&B country music
WEATHER	• Weather
FINANCE	• Finance
CHILDREN	• Children's programmes
SOCIAL	• Social affairs
RELIGION	• Religion
PHONE IN	• Phone in
TRAVEL	• Travel
LEISURE	• Leisure
JAZZ	• Jazz Music
COUNTRY	• Country Music
NATION M	• National Music
OLDIES	• Oldies Music
FOLK M	• Folk Music
DOCUMENT	• Documentary
TEST	• Alarm Test

ENG

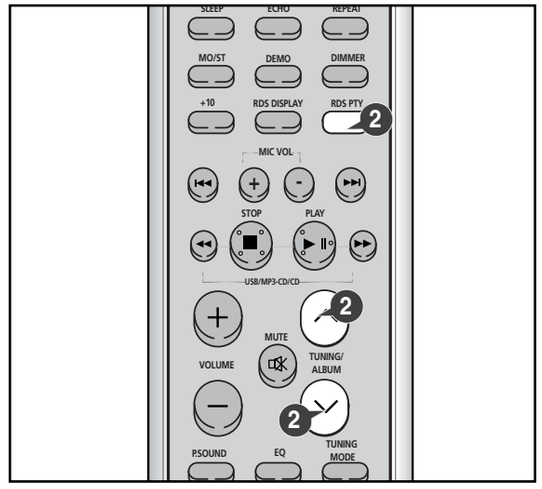
About PTY-SEARCH

1 Receive the FM radio.
- ♦ See the radio receiving method on the **page 17**.
- ♦ The FM and frequency appear on the display.
- ♦ If the received station is transmitting the RDS information, **"RDS"** lights up.

2 Press the **PTY** button.
- ♦ The PTY MODE(NEWS, AFFAIRS, etc.) appears on the display.
- ♦ Press the TUNING ∧ or ∨ button to select the desired PTY MODE.

➢
- ♦ If the station is transmitting no PTY information, 'NO PTY' lights on the display.
- ♦ When the PTY MODE is selected(The PTY MODE is shown on the display), press the PTY KEY once again to convert into PTY-SEARCH MODE and auto-search the station sequentially.
- ♦ If the PTY MODE received in the course of auto-search agrees with the selected PTY MODE, the auto-search stops and the PTY-SEARCH is finished.

☛ If the PTY MODE which agrees with the PTY MODE selected in the course of auto-search, isn't received, it is returned to the first frequency at beginning the PTY SEARCH and the auto-search and PTY SEARCH are suspended.



ENG

Timer Function

The timer enables you to switch the system on or off at specific times.

Example: You wish to wake up to music every morning.

➢ If you no longer want the system to be switched on or off automatically, you must cancel the timer.

☛ ♦ Before setting the timer, check that the current time is correct.
♦ For each step, you have a few seconds to set the required options. If you exceed this time, you must start again.

1 Switch the system on by pressing (⏻) .

2 Press **TIMER/CLOCK** until TIMER is displayed.

3 Press **PROGRAM/SET.**
Result: ON TIME is displayed (instead of the equalizer symbols) for a few seconds, followed by any switch-on time already set; you can set the timer switch-on time.

4 Set the timer switch-on time.
a Set the hour by pressing ∧ or ∨ button.
b Press **PROGRAM/SET**.
Result: The minutes flash.
c Set the minutes by pressing ∧ or ∨ button.
d Press **PROGRAM/SET**.
Result: OFF TIME is displayed (instead of the equalizer symbols) for a few seconds, followed by any switch-off time already set; you can now set the timer switch-off time.

5 Set the timer switch-off time.
a Set the hour by pressing ∧ or ∨ button.
b Press **PROGRAM/SET**.
Result: The minutes flash.
c Set the minutes by pressing ∧ or ∨ button.
d Press **PROGRAM/SET**.
Result: VOL 20 is displayed, where 20 corresponds to the volume already set.

6 Press ∧ or ∨ button to adjust the volume level and press **PROGRAM/SET**.
Result: The source to be selected is displayed.

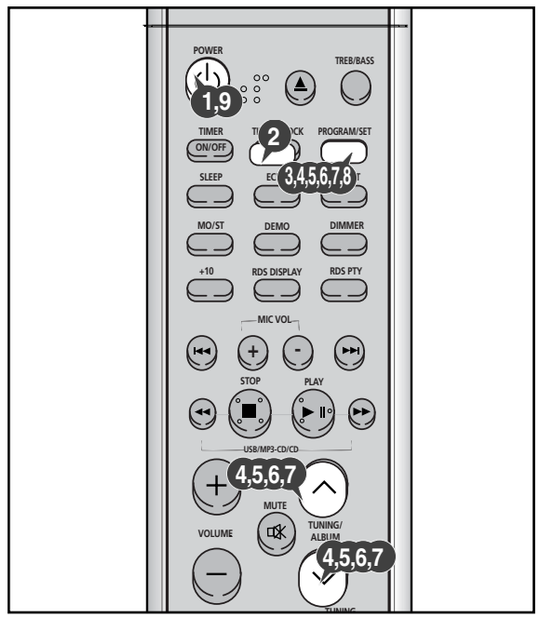
7 Press ∧ or ∨ button to select the source to be played when the system switches on.

If you select...	You must also...
TUNER (radio)	**a** Press **PROGRAM/SET**. **b** Select a preset station by pressing ∧ or ∨ .
MP3/CD (compact disc)	Load a compact disc.
USB	connect usb.

8 Press **PROGRAM/SET** to confirm the timer.

9 Press (⏻) to set the system to standby mode.
Result: 🕒 is displayed to the right of the time, indicating that the timer has been set. The system will switch on and off automatically at the required times.

♦ If the timer switch on and off times are identical, the word ERROR is displayed.

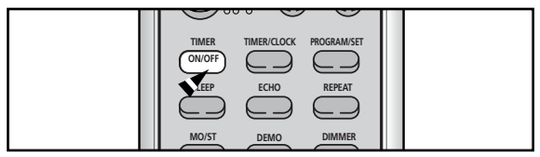


Cancelling the Timer

After having set the timer, it will start automatically as shown by the TIMER indication on the display. If you no longer wish to use the timer, you must cancel it.

➢ You can stop the timer at any time (system on or in standby mode).

To...	Press TIMER ON/OFF...
Cancel the timer	Once. Result: 🕒 is no longer displayed.
Restart the timer	Twice. Result: 🕒 is displayed again.



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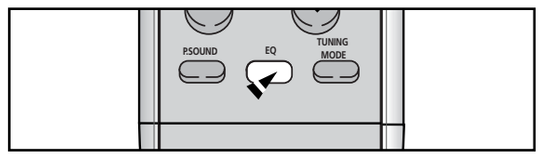
EQ Function

Your micro component system is equipped with a preset equalizer that allows you to choose the most appropriate balance between treble and bass frequencies, according to the type of music you are listening to.

Press **EQ** button until the required option is selected.
Result: Press the button repeatedly to select "EQ PASS→**POP** →**ROCK** →**CLASSIC** →JAZZ→ S.BASS".

♦ S.BASS Function : S.Bass function emphasizes the bass sound to produce the effect of explosion or booms.

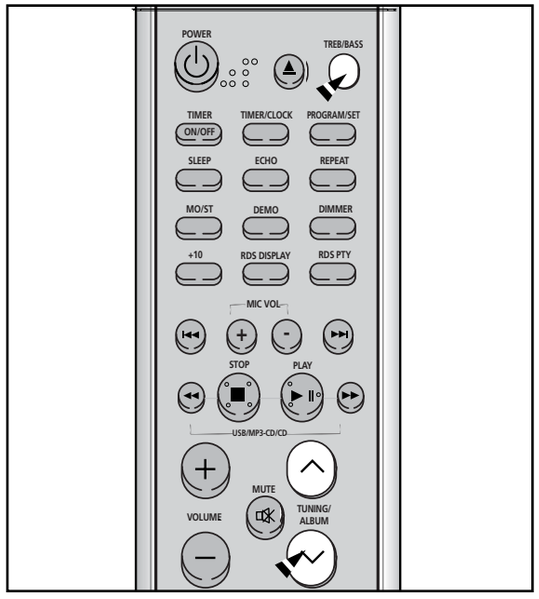


Treble Level Function

Treble Control function stresses high tones providing thudding sound effects.

1 Press **TREB/BASS** button until TREB 00 is displayed. Press ∧ or ∨ button to select from TREB -04 to TREB 04.

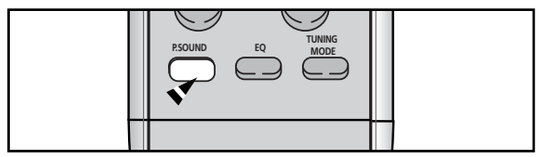
2 You can select the level of high tones you desire.



Selecting Sound Mode

Your compact system is equipped with the function of Power Sound.
The function of Power Sound amplifies bass and improves high key or bass twice as much for you to appreciate powerful real sound.

➢ Press **P.SOUND** button until the required option is selected. Each time the **P.SOUND** button is pressed, "**P.SOUND, OFF**" is selected or cancelled in this order.

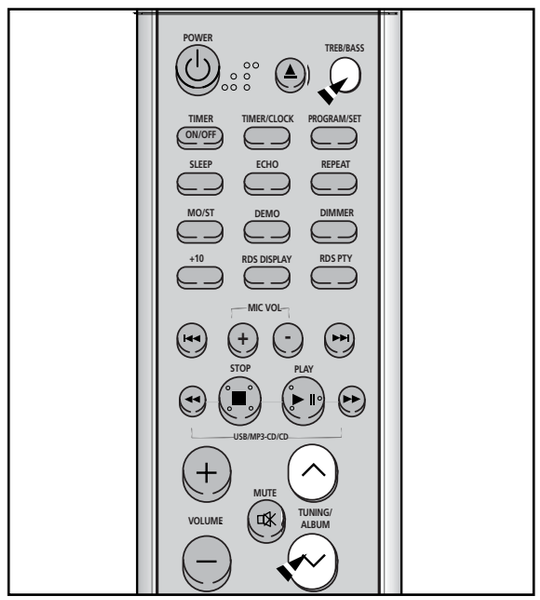


BASS Level Function

BASS function stresses low tones providing thudding sound effects.

1 Press **TREB/BASS** button until BASS 00 is displayed. Press ∧ or ∨ button to select from BASS -04 to BASS 04.

2 You can select the level of low tones you desire.



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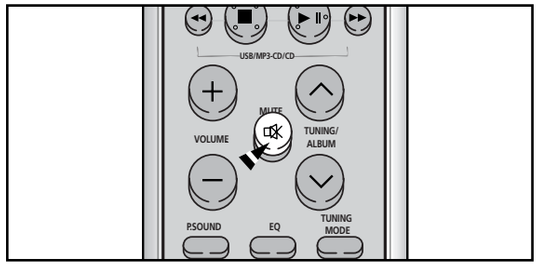
MUTE Function

You can turn the sound off temporarily on your system.
Example: You wish to answer a telephone call.

1 Press **MUTE (** **)**.

2 To switch the sound back on (at the same volume as before), press **MUTE** again or the **VOLUME** buttons.



Setting the System to Switch off Automatically

While listening to a compact disc or a cassette, you can set the system to switch off automatically
Example: You wish to go to sleep to music.

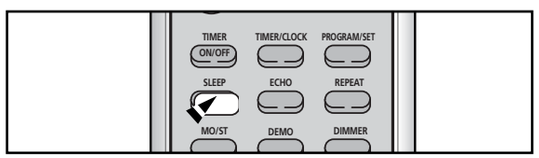
1 Press **SLEEP** button until the option is selected .
Result: The following indications are displayed:
90 MIN

2 Press **SLEEP** one or more times to indicate how long the system should continue playing before it switches off:

90 MIN → 60 MIN → 45 MIN → 30 MIN → 15 MIN → SLEEPOFF → 90 MIN

At any time, you can:
- ♦ Check the remaining time by pressing **SLEEP**.
- ♦ Change the remaining time by repeating Steps **1** and **2.**

3 To cancel SLEEP function, press **SLEEP** until **SLEEP OFF** is display.

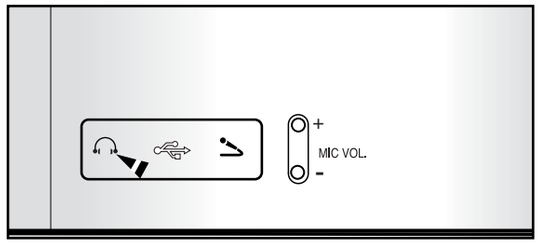


Connecting Headphones

You can connect a set of headphones to your micro component system so that you can listen to music or radio programmers without disturbing other people in the room. The earphones must have a 3.5ø jack or an appropriate adapter.

Connect the headphones to the **PHONES** jack on the top panel.
Result: The loudspeakers are no longer used to output the sound.

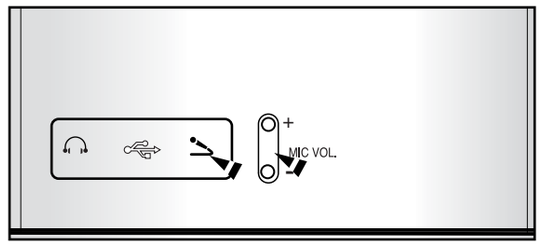
☛ Prolonged use of headphones at a high volume may damage your hearing.

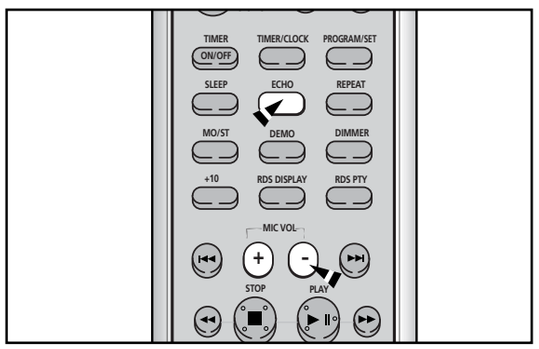


Microphone Function

The microphone enables the user to mix in his or her vocals to sing -along with the music.

Preparation
Plug the microphone with a 3.5mm jack into microphone terminal.
- ♦ Press the **MIC VOL** button to adjust the MIC level.
- ♦ Press the **ECHO** button to select ECHO1,ECHO2.....,ECHO6,ECHO7,and ECHO OFF.





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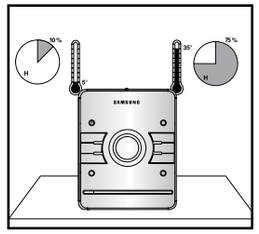
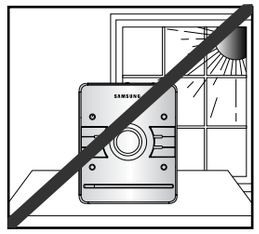
Safety Precautions

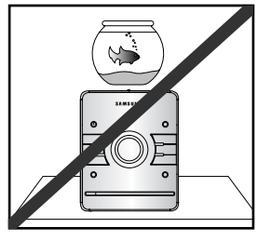
The following diagrams illustrate the precautions to be taken when using or moving your micro component system.



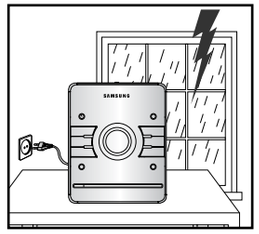
Ambient operating conditions:
Ambient temperature 5°C-35°C
Humidity 10-75%



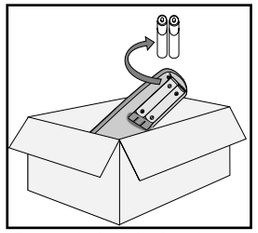
Do not expose the unit to direct sun radiation or other heat sources. This could lead to overheating and malfunction of the unit.



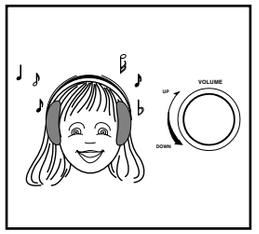
Do not place potted plants or vases on top of the unit. Moisture entering the unit could lead to dangerous electric shock and can cause equipment damage. In such events immediately disconnect the main plug from the socket.



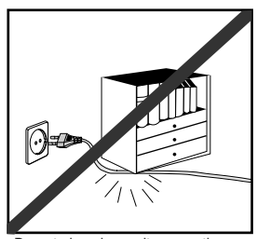
During thunderstorms, disconnect the main plug from the socket. Main voltage peaks due to lightning could damage the unit.



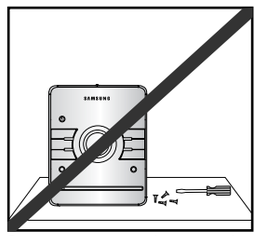
Remove the batteries from the remote control, if not used for any extended period.
Leaking batteries can cause serious damage to the remote control.



When using headphones, take care not to listen at excessive volumes. Extended use of headphones at high volumes will lead to hearing damage.



Do not place heavy items on the main lead. Main cable damage can lead to damage of the equipment (fire hazard) and can cause electric shock.



Do not remove any equipment panels. The inside of the unit contains live components, which cause electric shock.

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Cleaning Your Micro Component System

To obtain the best possible results from your micro component system, you must clean the following elements regularly:
- ♦ The outer casing
- ♦ The compact disc player
- ♦ The cassette players (heads, rollers and drive capstans)

☛ Always unplug the system from the wall outlet:
- ♦ Before cleaning it
- ♦ If you are not going to be using it for a long time

Outer Casing
Clean the outer casing regularly using a soft cloth and a light detergent. Do not use abrasive powders, liquids or aerosol cleaners. Never let any liquids get into the system.

Compact Disc Player

1 Before playing a compact disc, clean it with a special CD cleaning agent. Do not use the same cleaning agents as for vinyl LP records. Carefully wipe the disc from the centre outward.

2 Regularly clean the player with a special cleaning disc (available from your local dealer).

☛
- ♦ If you will not be using the remote control for a long time, remove the batteries to prevent corrosion.
- ♦ Although your system is very hard-wearing, it should not be used in an excessively dusty environment or subjected to shocks or extreme heat (close to heating appliances or in direct sunlight, etc.).
- ♦ If the unit emits an unpleasant odor when in use, unplug it from the main supply and contact the after-sales service.

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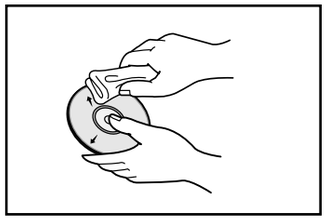
Precautions When Using Compact Discs

- Handle your compact discs with care. Always hold them by the edges to avoid leaving fingerprints on the shiny surface.
- When you have finished playing a compact disc, always put it back in its case.
- Do not fix paper to the discs and do not write on the label.
- Clean them with a special-purpose cloth.
- Store your compact discs in a clean place, out of direct sunlight, where they will not be exposed to high temperatures.
- Always use compact discs marked DIGITAL AUDIO



Before Contacting the After-Sales Service

It always takes a little time to become familiar with a new appliance. If you have any of the problems listed below, try the solutions given. They may save you the time and inconvenience of an unnecessary service call.

	Problem	Checks/Explanation
GENERAL	The system does not work	• The main lead is not correctly plugged into a wall socket or the wall socket is not switched on. • The remote control batteries need replacing or the polarity has not been respected. • The ⏻ button has not been pressed.
GENERAL	There is no sound	• The volume has been completely turned down. • The correct function (TUNER, MP3/WMA-CD/CD, AUX) has not been selected. • You have connected a set of earphones. • The loudspeaker wires have been disconnected. • The **MUTE** button has been pressed.
GENERAL	The Timer does not work	• The timer has been stopped by pressing **TIMER ON/OFF**.
GENERAL	In case it does not work, even the action is taken as above.	• Press the **STOP** (■)button for 5 seconds in power 'OFF'(standby), then it is returned the original position (RESET)
CD	The compact disc player does not start playing	• The CD function has not been selected. • The disc has been inserted face down or is either dirty or scratched. • The laser sensor is dirty or dusty. • The system has not been installed on a flat, horizontal surface. • Condensation has formed in the player; leave the system in a warm, airy room for at least one hour.
RADIO	Reception is poor or no radio stations are received at all	• The TUNER function has not been selected. • The radio frequency has not been correctly selected. • The aerial has been disconnected or is not facing the right way. Turn it until you find the best orientation. • You are in a building that blocks radio waves; you must use an outside aerial.

If the above guidelines do not allow you to solve the problem, take a note of:

- The model and serial numbers, normally printed on the rear of the system
- Your warranty details
- A clear description of the problem

Then contact your local dealer or SAMSUNG after-sales service.

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Technical Specifications

SAMSUNG strives to improve its products at all times. Both the design specifications and these user instructions are thus subject to change without notice.

RADIO	
FM	
Signal/noise ratio	55 dB
Usable sensitivity	10 dB
Total harmonic distortion	0.8 %
COMPACT DISC PLAYER	
Frequency range	20 Hz - 20 KHz (± 1 dB)
Signal/noise ratio	70 dB (at 1 KHz) with filter
Distortion	0.2 % (at 1 KHz)
Channel separation	45 dB
Disc sizes	Diameter: 120 or 80 mm. Thickness: 1.2 mm
AMPLIFIER	
Output power(4 Ω)	2X20 Watts RMS (total harmonic distortion : 10%)(MM-A24) 2X50 Watts RMS (total harmonic distortion : 10%)(MM-A25)
Channel separation	45 dB
Signal/noise ratio	72 dB
GENERAL	
Power Consumption	20W (MM-A24) 35W(MM-A25)
Weight	2.5Kg
Dimensions	170(W) x 212 (H) x 293(D) mm

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

Region	Country	Customer Care Center *	Web Site
North America	CANADA	1-800-SAMSUNG(726-7864)	www.samsung.com/ca
	MEXICO	01-800-SAMSUNG(726-7864)	www.samsung.com
	U.S.A	1-800-SAMSUNG(726-7864)	www.samsung.com
Latin America	ARGENTINE	0800-333-3733	www.samsung.com/ar
	BRAZIL	0800-124-421 , 4004-0000	www.samsung.com
	CHILE	800-SAMSUNG(726-7864)	www.samsung.com/cl
	NICARAGUA	00-1800-5077267	
	HONDURAS	800-7919267	
	COSTA RICA	0-800-507-7267	www.samsung.com/latin
	ECUADOR	1-800-10-7267	www.samsung.com/latin
	EL SALVADOR	800-6225	www.samsung.com/latin
	GUATEMALA	1-800-299-0013	www.samsung.com/latin
	JAMAICA	1-800-234-7267	www.samsung.com/latin
	PANAMA	800-7267	www.samsung.com/latin
	PUERTO RICO	1-800-682-3180	www.samsung.com/latin
	REP. DOMINICA	1-800-751-2676	www.samsung.com/latin
	TRINIDAD & TOBAGO	1-800-SAMSUNG(726-7864)	www.samsung.com/latin
	VENEZUELA	0-800-100-5303	www.samsung.com/latin
	COLOMBIA	01-8000112112	www.samsung.com.co
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	GERMANY	01805 - SAMSUNG(726-7864) (€ 0,14/Min)	www.samsung.com
	HUNGARY	06-80-SAMSUNG(726-7864)	www.samsung.com
	ITALIA	800-SAMSUNG(726-7864)	www.samsung.com
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	SLOVAKIA	0800-SAMSUNG(726-7864)	www.samsung.com/sk
	SPAIN	902 10 11 30	www.samsung.com
	SWEDEN	0771-400 200	www.samsung.com/se
	U.K	0845 SAMSUNG (7267864)	www.samsung.com
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	UZBEKISTAN	8-10-800-500-55-500	www.samsung.uz
	KYRGYZSTAN	00-800-500-55-500	
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	UKRAINE	8-800-502-0000	www.samsung.com
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